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ELECTRODYNAMICS, WIND AND TEMPERATURE

by

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This RTOP provides for correlative meteorological wind and temperature measurements with atmospheric electrodynamic measurements. Meteorological rocketsondes have been launched as part of a number of electrodynamic investigations in Alaska, Norway, Peru, Sweden, and at the Wallops Flight Facility, Wallops Island, Virginia. Measurements obtained as part of the MAC/Epsilon campaign during October 1987 from Andoya, Norway, were in conjunction with electric field, ion mobility, conductivity, and energy deposition studies. Experimenters were from the GSFC, University of Denver, and The Pennsylvania State University. The measurements obtained between 30 and 90 kilometers are to evaluate and correlate changes in the atmospheric electrical structure caused by the neutral wind and temperature, or changes in the neutral atmosphere resulting from electrical anomalies. Previous measurements have been obtained in connection with the occurrence of noctilucent clouds and thunderstorms. Future plans are to study neutral or electrical structure correlations in the above situations and to make wind and temperature measurements in conjunction with studies of polar mesospheric clouds.

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